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Figure 1

```
Bc28.2  MKGFFGIILSIIFVRAVSCTE DENRDSVVEGATSVEASLKEQIDWLAERY SADLTNKDTS 60
Bc28.1  MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERY SADLTNKDTS 60
          *****;*****
          ↑

Bc28.2  KWNTTEEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM 120
Bc28.1  KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM 120
          ****;*:*****

Bc28.2  LYVLPNTHRELSSLKNKIDEWKKVKASDNGTNVIKNIKDDRTNTWFVAHGFKVAELNDVT 180
Bc28.1  LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT 180
          ****. *****;*:*:*:*****

Bc28.2  LEKLATVVKKLVSHKDMKYINKVMKKYFDRQKKE-AERLTKKAEKGMSSGGKYKVKGY--A 237
Bc28.1  LEKLATVVNELVSHKDMYIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKDGFSEFA 240
          *****;:***** ***..*: .*: .** :*:*: ***:*:*. * * .*: *
          ↑

Bc28.2  APSTWML----- 244
Bc28.1  GLSVISLLVA AVVV 256
          . * . *
```

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Figure 2

```

A8      MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERY SADLTNKDTS 60
BcB     MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERY SADLTNKDTS 60
34.01   MKGFFGIILSIIFVRAVSCTEDEKRDTVVEGATSVEASLKEQIDWLAERY SADLTNKDTS 60
BcA     MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERY SADLTNKDTS 60
Robin   MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERY SADLTNKDTS 60
Castres MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERY SADLTNKDTS 60
*****:*****

A8      KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM 120
BcB     KWNTDEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM 120
34.01   KWNTNEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM 120
BcA     KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM 120
Robin   KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM 120
Castres KWNTDEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM 120
****:*****

A8      LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWVFAHGFKVAELNDVT 180
BcB     LYVLSITHRELSSLKNKIDEWKKVKASDNGTNVIQNIKDDRTNTWVFAHGFKVAELNDVT 180
34.01   LYVLSITHRELSSLKNKIDEWKKVKASDNGTNVIQNIKDDRTNTWVFAHGFKVAELNDVT 180
BcA     LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWVFAHGFKVAELNDVT 180
Robin   LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWVFAHGFKVAELNDVT 180
Castres LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWVFAHGFKVAELNDVT 180
*****:*****

A8      LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKDGF SFA 240
BcB     LEKLATVVNELVSHNDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKDGF SFA 240
34.01   LEKVATVVNELVSHNDMIYINDAMKQNVDKWNKE-SERLAMMAEQGISGAKGKKDGF SFA 239
BcA     LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKDGF SFA 240
Robin   LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKDGF SFA 240
Castres LEKLATVVNELVSHNDMIYINDAMKQNVDKWNKE-SERLAMMAEQGISGAKGKKDGF SFA 239
***:*****:*****

A8      GLSVISLLVA AVAVV 256
BcB     GLSVISLLVA AVAVL 256
34.01   GLSVISLLVA AVAVL 255
BcA     GLSVISLLVA AVAVV 256
Robin   GLSVISLLVA AVAVV 256
Castres GLSVISLLVA AVAVL 255
*****:

```

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Figure 3

	5'UTR		Met
Bc28.2	AGTCGATACCTCCGAGAATAGTCTTGTATTAACTCTGTCGCTATTACAAATGAAGGGTTT	60	
Bc28.1	AGTCGATACCTCCGAGAATAGTCTTGTATTAACTCTGTCGCTATTACAAATGAAGGGTTT	60	

			Fspe3
Bc28.2	CTTCGGAATTATTTTGTCTATTATTTTCGTTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120	
Bc28.1	CTTCGGAATTATTTTGTCCATTATTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120	

Bc28.2	CAGGGATAGTGTCTGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180	
Bc28.1	AAGGGATAGTGTCTGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180	

Bc28.2	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAAATGGAATAC	240	
Bc28.1	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAAATGGAATAC	240	

Bc28.2	CGAAGAGCAGGTGAAGGAGCTGTTAAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300	
Bc28.1	CGACGAGAAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300	
	*** **		
Bc28.2	TGCCATTGCTAAGGAGTTCACAAATGAAGTCCGTTCTGTGCACCGGTGTCAACGAAAC	360	
Bc28.1	TGCCATTGCTAAGGAATTCACAAATGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360	

Bc28.2	TCCCGCTCATGTCGCTAACAGGGTGTACCCGGAGACGCCATCTCCATGCTTTACGTGCT	420	
Bc28.1	TCCCGCTCATGTCGCTAACAGGGTGTACCCGGAGACGCCATCTCCATGCTCTACGTGCT	420	

			pr 3
Bc28.2	TCCTAACACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT	480	
Bc28.1	TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT	480	
	* ***		
Bc28.2	CAAGGCATCTGACAATGGCACCAATGTGATCAAAAATATCAAGGACGACAGGACTAACAC	540	
Bc28.1	CAAGGCATCTGAAGATGGCACCAAGTGATCAAAAATATCAAGGACGACAGGACTAACAC	540	

	Cons3.1		
Bc28.2	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTAACCCTTGAGAACT	600	
Bc28.1	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAACT	600	

Bc28.2	TGCAACAGTGGTTAAAAAATTGGTGTCCACAAAGATATGAAATACATTAACAAAGTTAT	660	
Bc28.1	TGCAACAGTGGTTAACGAATTGGTGTCCACAAAGATATGATTACATTAACGACGCTAT	660	

Bc28.2	GAAAAAATATTTTGACAGGCAGAAAAAGGAGG---CTGAAAGATTGACCAAAAAGGCCGA	717	
Bc28.1	GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA	720	
	*** ** *		
Bc28.2	GAAGGGTATGTCTGGAGGTAAGTATAAGGTGAAAGGTTATGCAGCCCCCTCTACTTGGAT	777	
Bc28.1	ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTATTGCGCGGT-CTTAG-T	778	



Figure 4

	5'UTR	Met	
A8	AGTCGATACCTCCGAGAATAGTCTTGTATTAATCCTGTCGCTATTACAAATGAAGGGTTT	60	
BcB	AGTCGATACCTCCGAGAATAGTCTTATATTAATCTTGCCGCTATTACAAATGAAGGGTTT	60	
34.01	AGTCGATACCTCCGAGAATAGTCTTATATTAATCTTGCCGCTATTACAAATGAAGGGTTT	60	
Castres	AGTCGATACCTCCGAGAATAGTCTTATATTAATCTTGCCGCTATTACAAATGAAGGGTTT	60	
Robin	AGTCGATACCTCCGAGAATAGTCTTGTATTAATCCTGTCGCTATTACAAATGAAGGGTTT	60	
BcA	AGTCGATACCTCCGAGAATAGTCTTGTATTAATCCTGTCGCTATTACAAATGAAGGGTTT	60	

			Fspe3
A8	CTTCGGAATTATTTTGTCCATTATTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120	
BcB	CTTCGGAATTATTTTGTCCATTATTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120	
34.01	CTTCGGAATTATTTTGTCCATTATTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120	
Castres	CTTCGGAATTATTTTGTCCATTATTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120	
Robin	CTTCGGAATTATTTTGTCCATTATTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120	
BcA	CTTCGGAATTATTTTGTCCATTATTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120	

A8	AAGGGATAGTGTCTGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180	
BcB	AAGGGATAGTGTCTGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180	
34.01	AAGGGATACTGTCTGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180	
Castres	AAGGGATAGTGTCTGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180	
Robin	AAGGGATAGTGTCTGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180	
BcA	AAGGGATAGTGTCTGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180	

A8	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAATGGAATAC	240	
BcB	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAATGGAATAC	240	
34.01	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAATGGAATAC	240	
Castres	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAATGGAATAC	240	
Robin	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAATGGAATAC	240	
BcA	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAATGGAATAC	240	

A8	CGACGAGAAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300	
BcB	CGACGAGCAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300	
34.01	CAACGAGCAGGTGAAGGAACTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300	
Castres	CGACGAGCAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300	
Robin	CGACGAGAAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300	
BcA	CGACGAGAAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300	
	* *****		
A8	TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360	
BcB	TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360	
34.01	TGCCATTGCTAAGGAGTTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360	
Castres	TGCCATTGCTAAGGAGTTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360	
Robin	TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360	
BcA	TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360	

A8	TCCCGCTCATGTCGCTAACAGGGTGTACCCGGAGACGCCATCTCCATGCTTACGTGCT	420	
BcB	TCCCGCTCATGTCGCTAACAGGGTGTACCCGGAGACGCCATCTCCATGCTTACGTGCT	420	
34.01	TCCCGCTCATGTCGCTAACAGGGTGTACCCGGAGACGCCATCTCCATGCTTACGTGCT	420	
Castres	TCCCGCTCATGTCGCTAACAGGGTGTACCCGGAGATGCCATCTCCATGCTTACGTGCT	420	
Robin	TCCCGCTCATGTCGCTAACAGGGTGTACCCGGAGACGCCATCTCCATGCTTACGTGCT	420	
BcA	TCCCGCTCATGTCGCTAACAGGGTGTACCCGGAGACGCCATCTCCATGCTTACGTGCT	420	

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A8 TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT 480
 BcB TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT 480
 34.01 TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT 480
 Castres TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT 480
 Robin TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT 480
 BcA TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT 480

A8 CAAGGCATCTGAAGATGGCACCAGTGTATCCAAAATATCAAGGACGACAGGACTAACAC 540
 BcB CAAGGCATCTGACAATGGCACCAGTGTATCCAAAATATCAAGGACGACAGGACTAACAC 540
 34.01 CAAGGCATCTGACAATGGCACCAGTGTATCCAAAATATCAAGGACGACAGGACTAACAC 540
 Castres CAAGGCATCTGAAGATGGCACCAGTGTATCCAAAATATCAAGGACGACAGGACTAACAC 540
 Robin CAAGGCATCTGAAGATGGCACCAGTGTATCCAAAATATCAAGGACGACAGGACTAACAC 540
 BcA CAAGGCATCTGAAGATGGCACCAGTGTATCCAAAATATCAAGGACGACAGGACTAACAC 540

Cons3.1

A8 CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAACT 600
 BcB CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTAACCCTTGAGAACT 600
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 Robin CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAACT 600
 BcA CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAACT 600

A8 TGCAACAGTGGTTAACGAATTGGTGTCCACAAAGATATGATTTACATTAACGACGCTAT 660
 BcB TGCAACAGTGGTTAACGAATTGGTGTCCACAAATGATATGATCTACATTAACGACGCTAT 660
 34.01 TGCAACAGTGGTTAACGAATTGGTGTCCACAAATGATATGATCTACATTAACGACGCTAT 660
 Castres TGCAACAGTGGTTAACGAATTGGTGTCCACAAATGATATGATCTACATTAACGACGCTAT 660
 Robin TGCAACAGTGGTTAACGAATTGGTGTCCACAAAGATATGATTTACATTAACGACGCTAT 660
 BcA TGCAACAGTGGTTAACGAATTGGTGTCCACAAAGATATGATTTACATTAACGACGCTAT 660

A8 GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA 720
 BcB GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA 720
 34.01 GAAGCAAAACGTTGATAAATGGAACAAGGAG---TCTGAAAGATTGGCCATGATGGCTGA 717
 Castres GAAGCAAAACGTTGATAAATGGAACAAGGAG---TCTGAAAGATTGGCCATGATGGCTGA 717
 Robin GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA 720
 BcA GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA 720

A8 ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTGCGCCGGTCTTAGTGT 780
 BcB ACAGGGTATATCTGGAGCAAAGGGTAAGAAGGATGGATTCTCATTGCGCCGGTCTTAGTGT 780
 34.01 ACAGGGTATATCTGGAGCAAAGGGTAAGAAGGATGGATTCTCATTGCGCCGGTCTTAGTGT 777
 Castres ACAGGGTATATCTGGAGCAAAGGGTAAGAAGGATGGATTCTCATTGCGCCGGTCTTAGTGT 777
 Robin ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTGCGCCGGTCTTAGTGT 780
 BcA ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTGCGCCGGTCTTAGTGT 780

Rspe4

Stop

Rspe3C

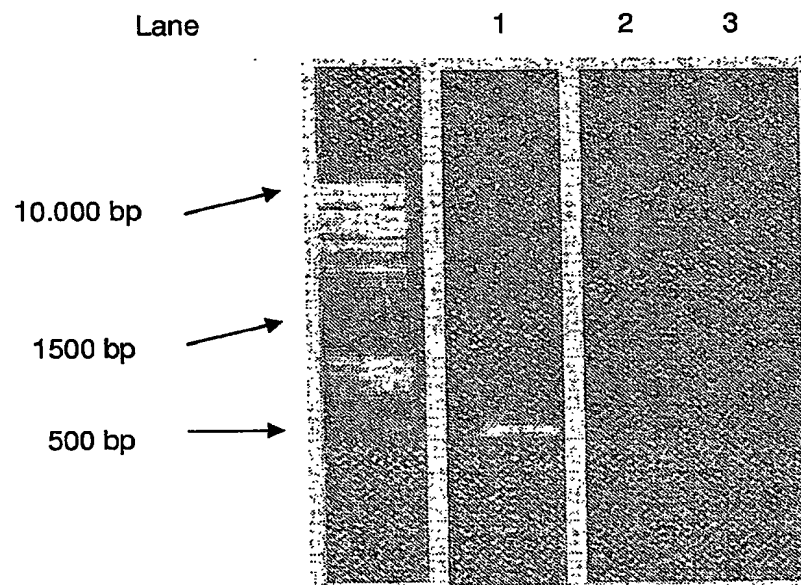
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 BcB CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGTTAAGGATGACTATTT 840
 34.01 CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGTTAAGGATGACTATTT 837
 Castres CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGTTAAGGATGACTATTT 837
 Robin CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGTTAAGGATGACTATTT 840
 BcA CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGTTAAGGATGACTATTT 840

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Rspe3C

A8	GTGGGCGTAATG	852
BcB	GTGGGCGTAATG	852
34.01	GTGGGCGTAATG	849
Castres	GTGGGCGTAATG	849
Robin	GTGGGCGTAATG	852
BcA	GTGGGCGTAATG	852

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Figure 5

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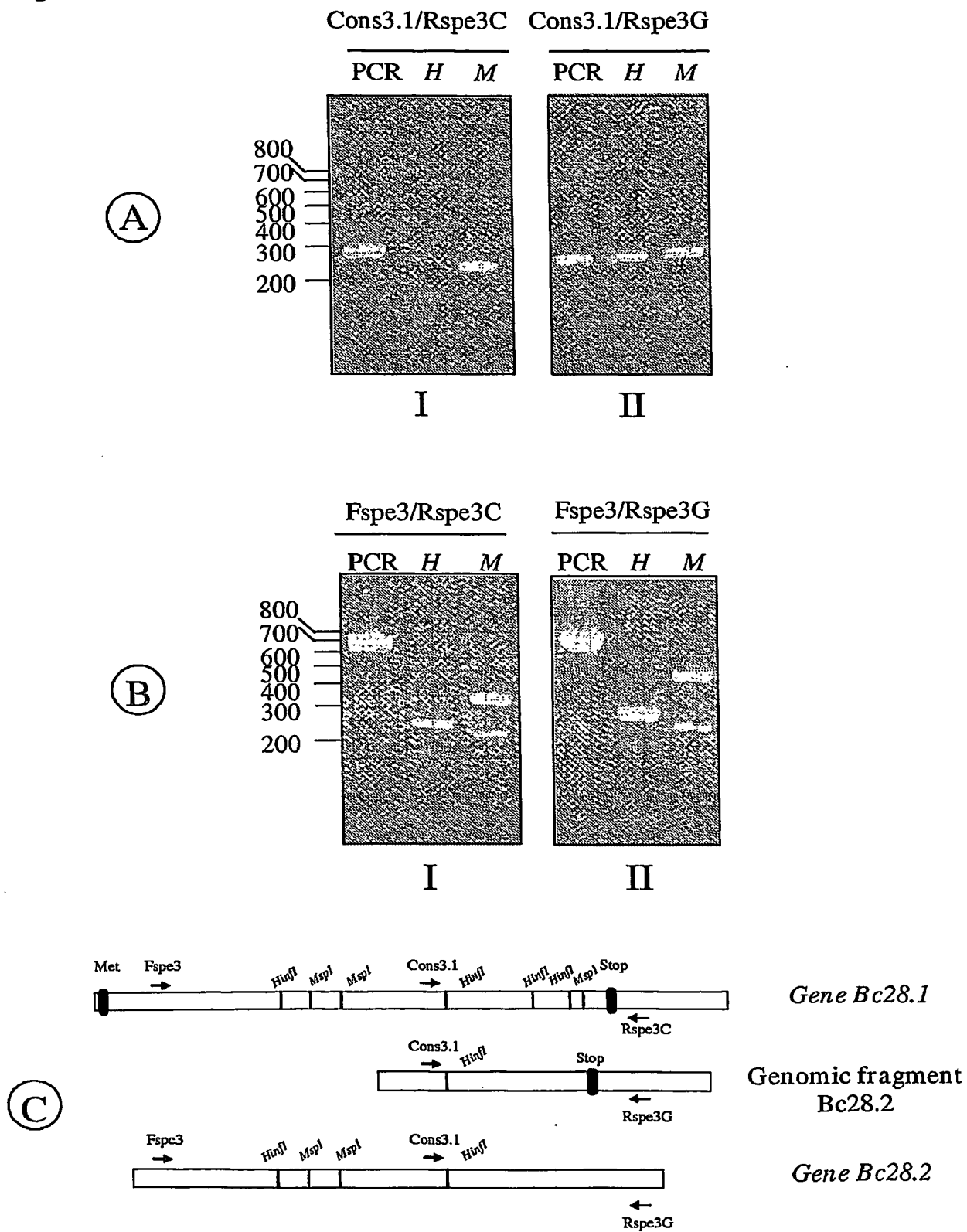
Figure 6

Figure 7

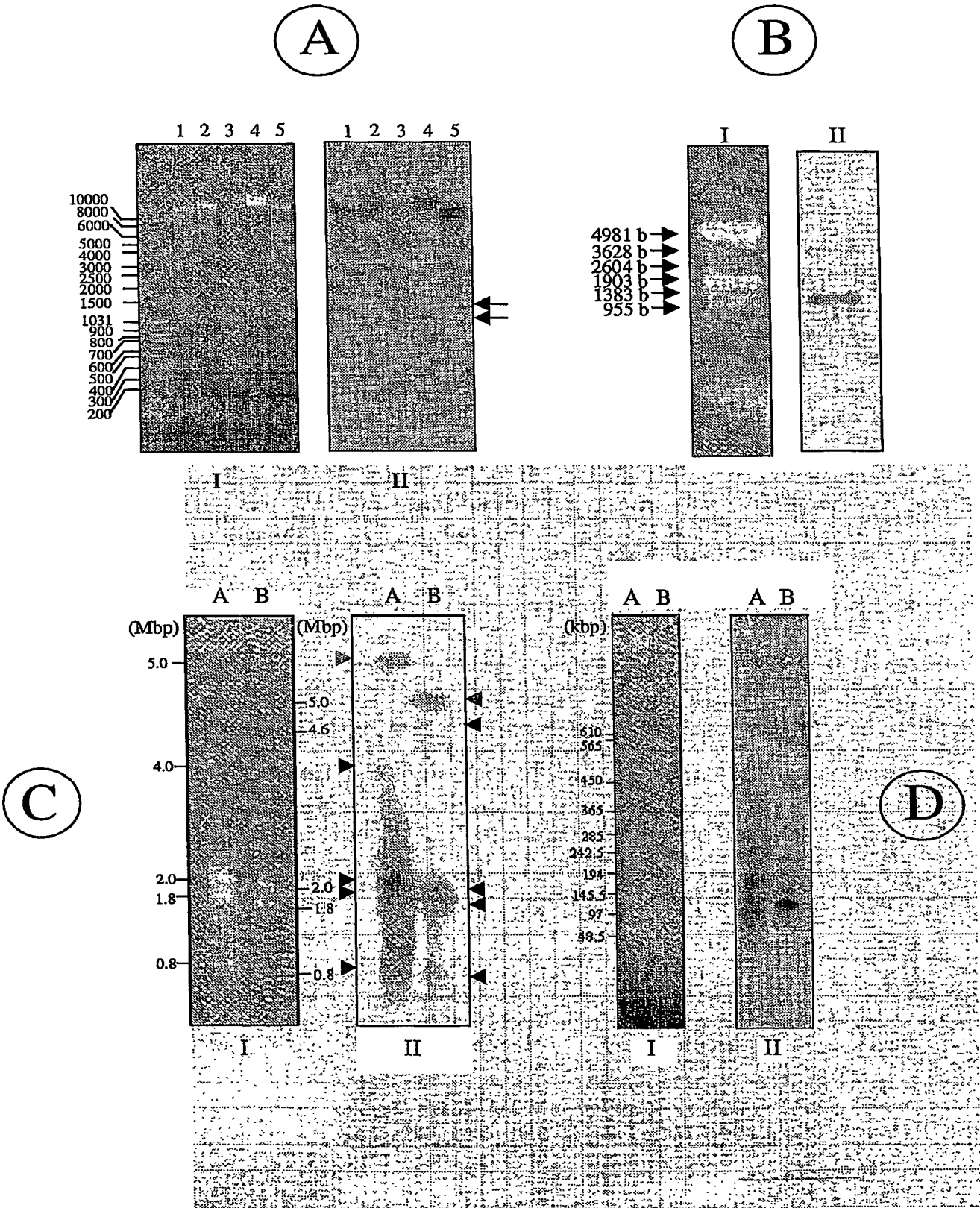
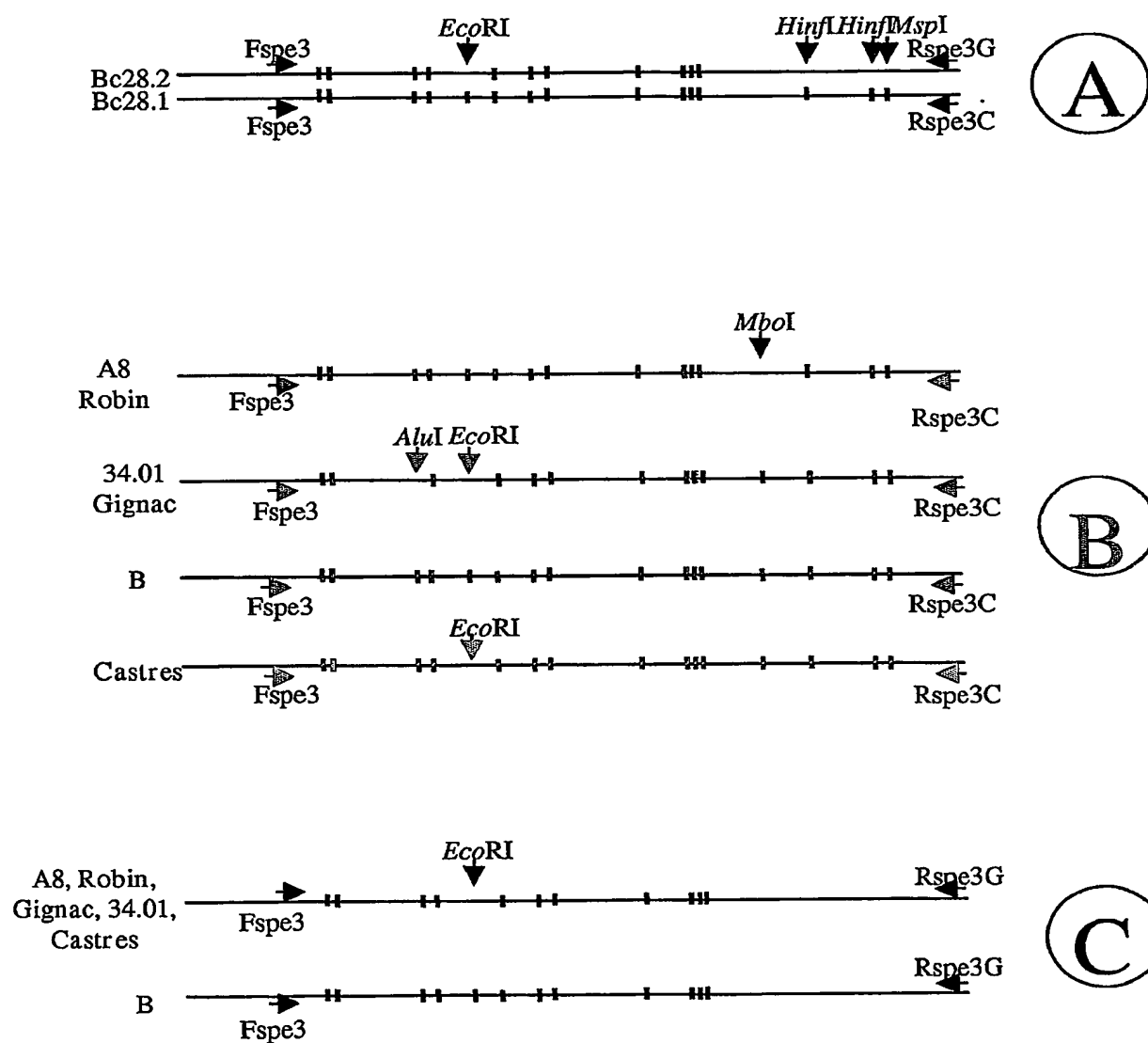
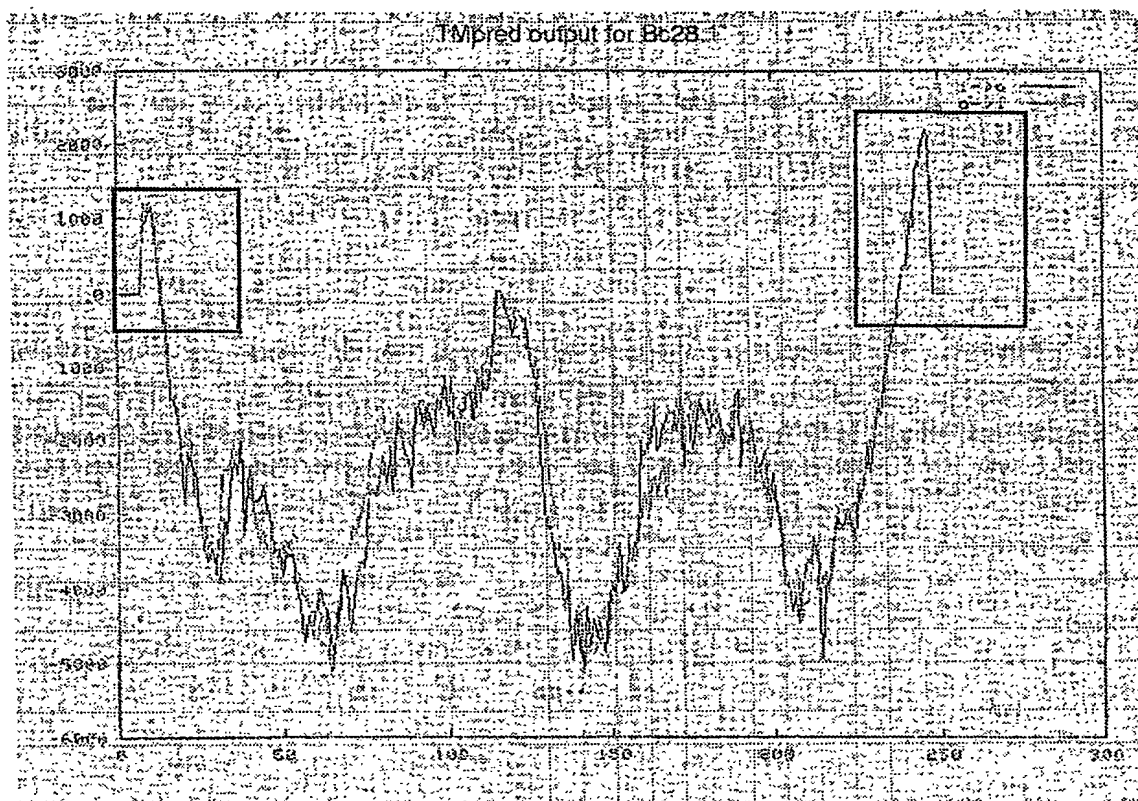


Figure 8



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Figure 9



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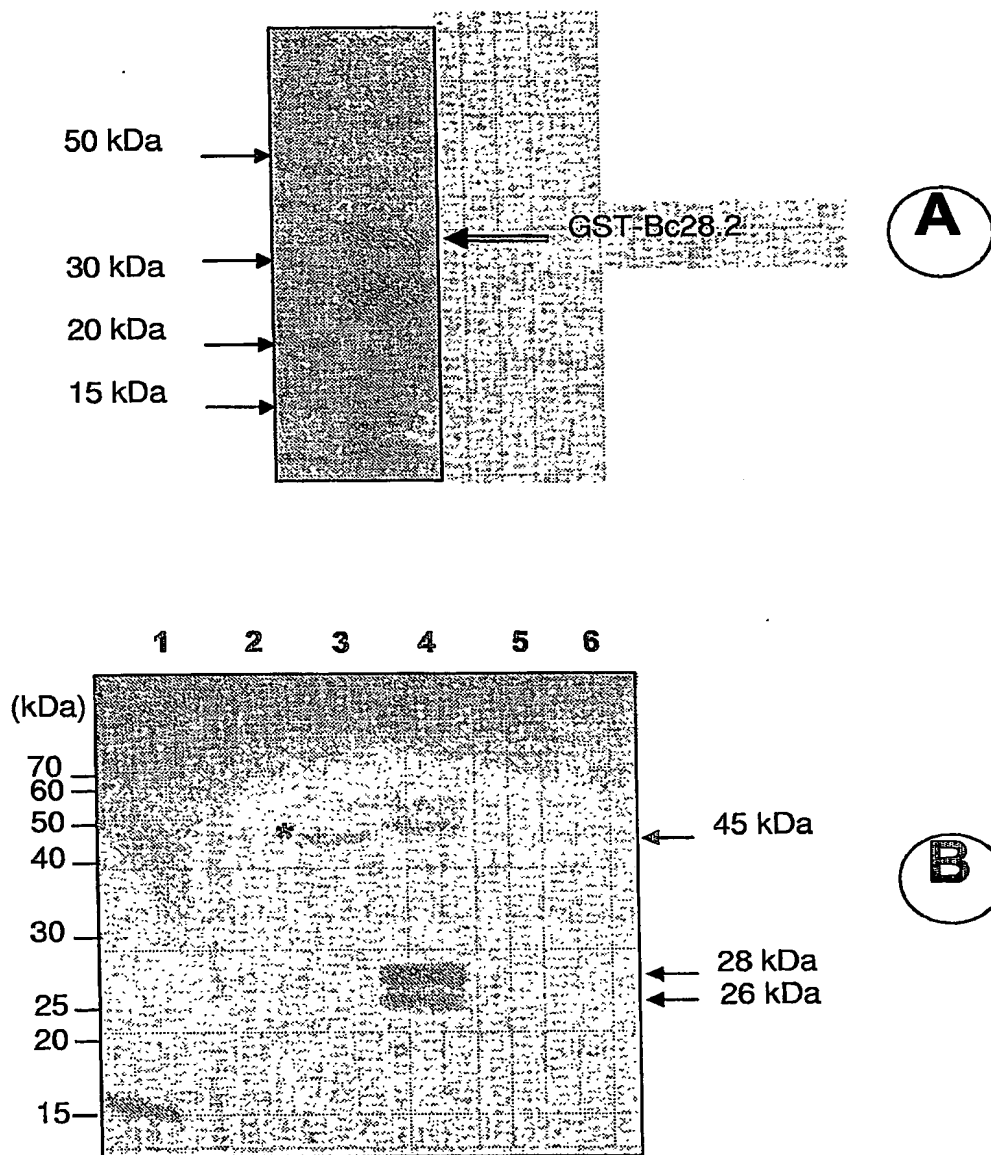
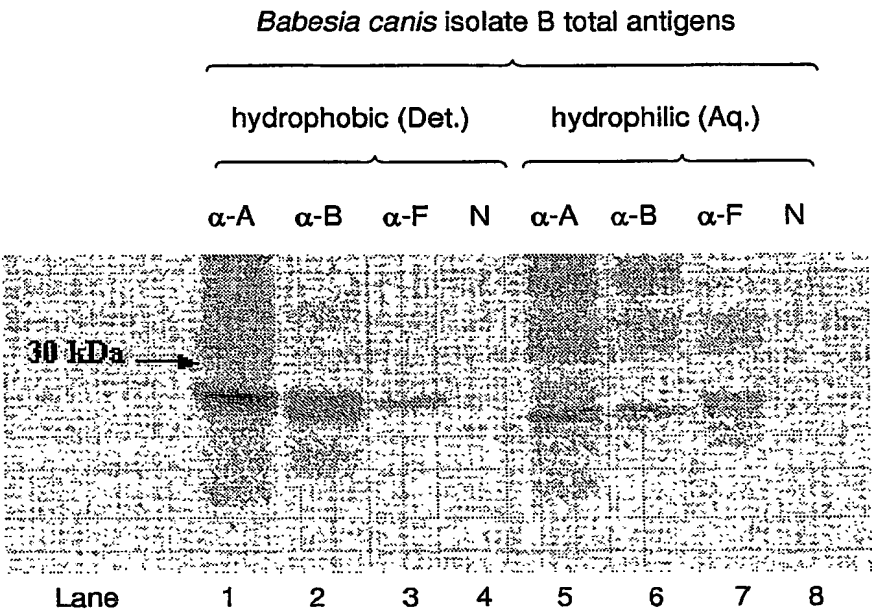
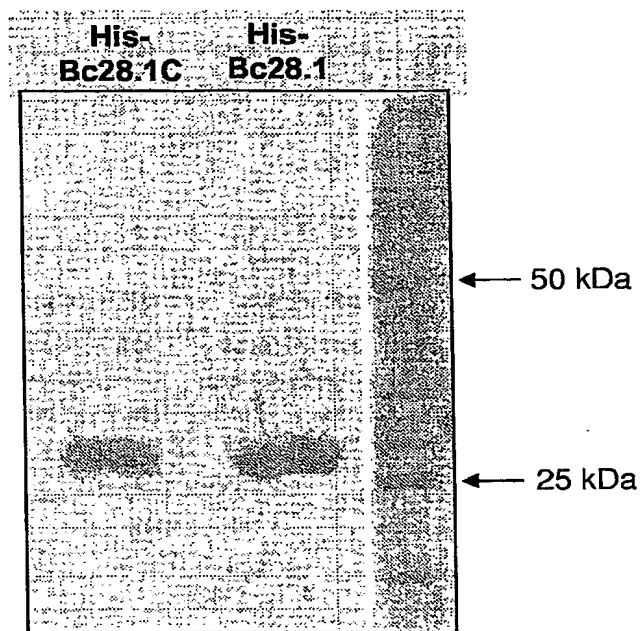
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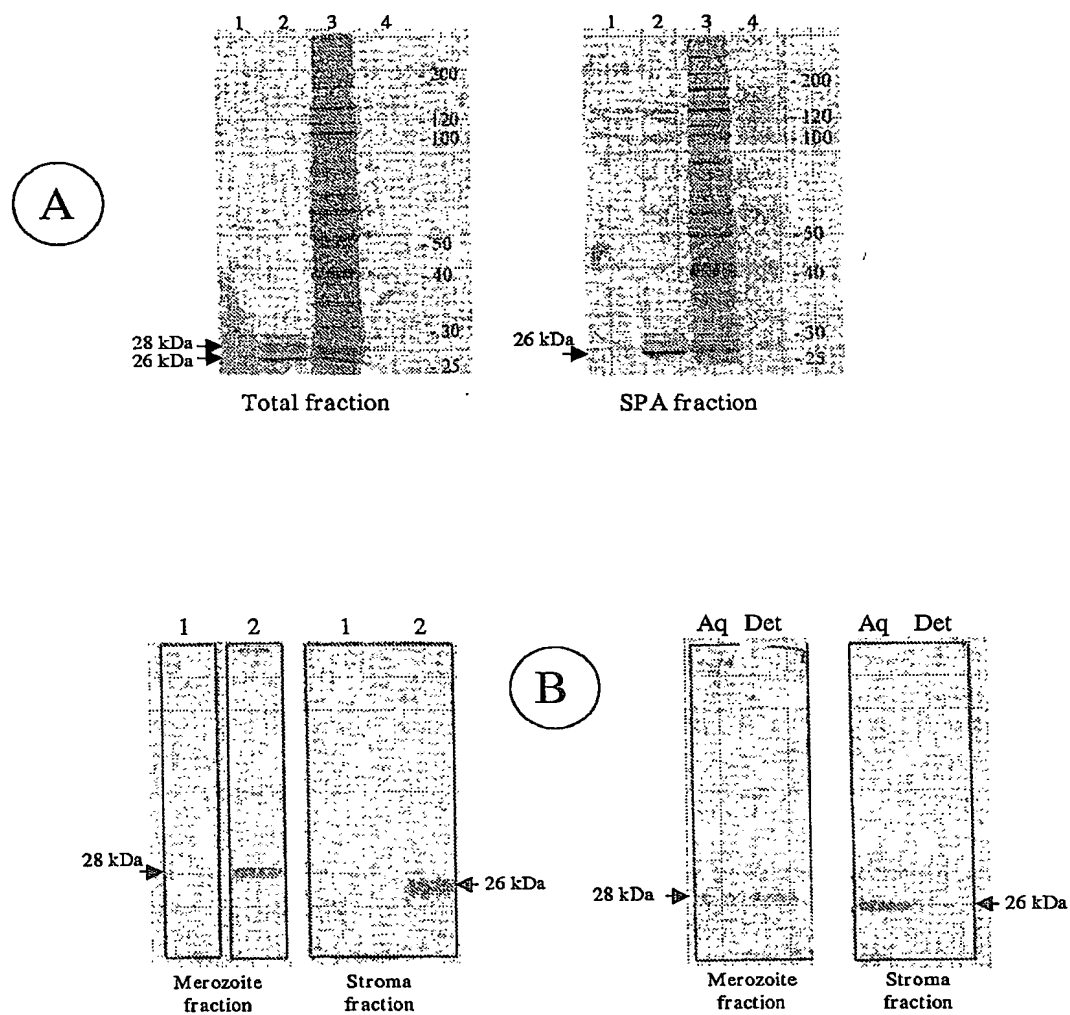
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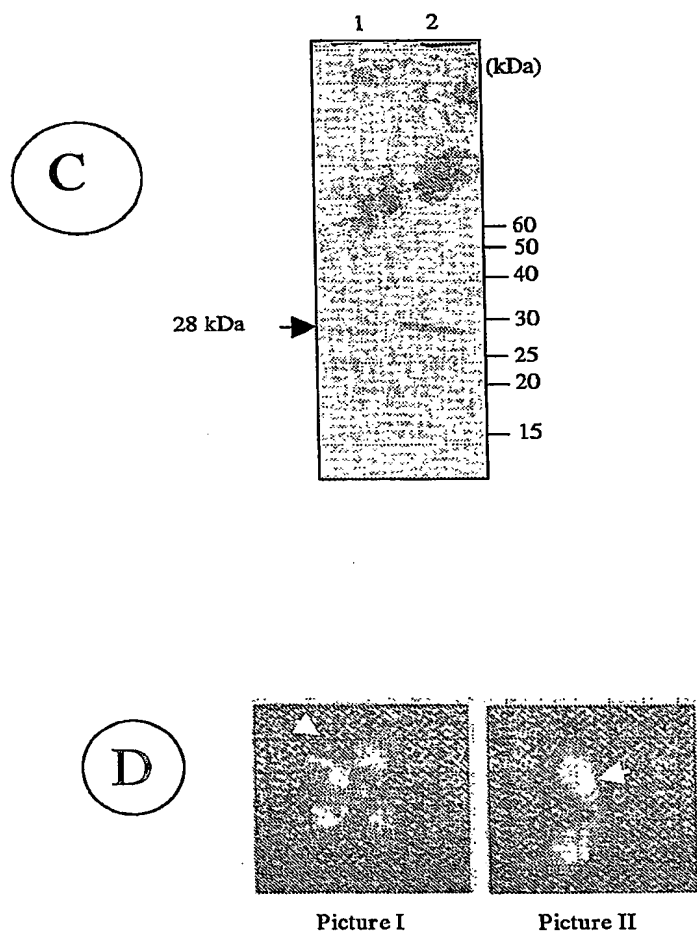
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Figure 12

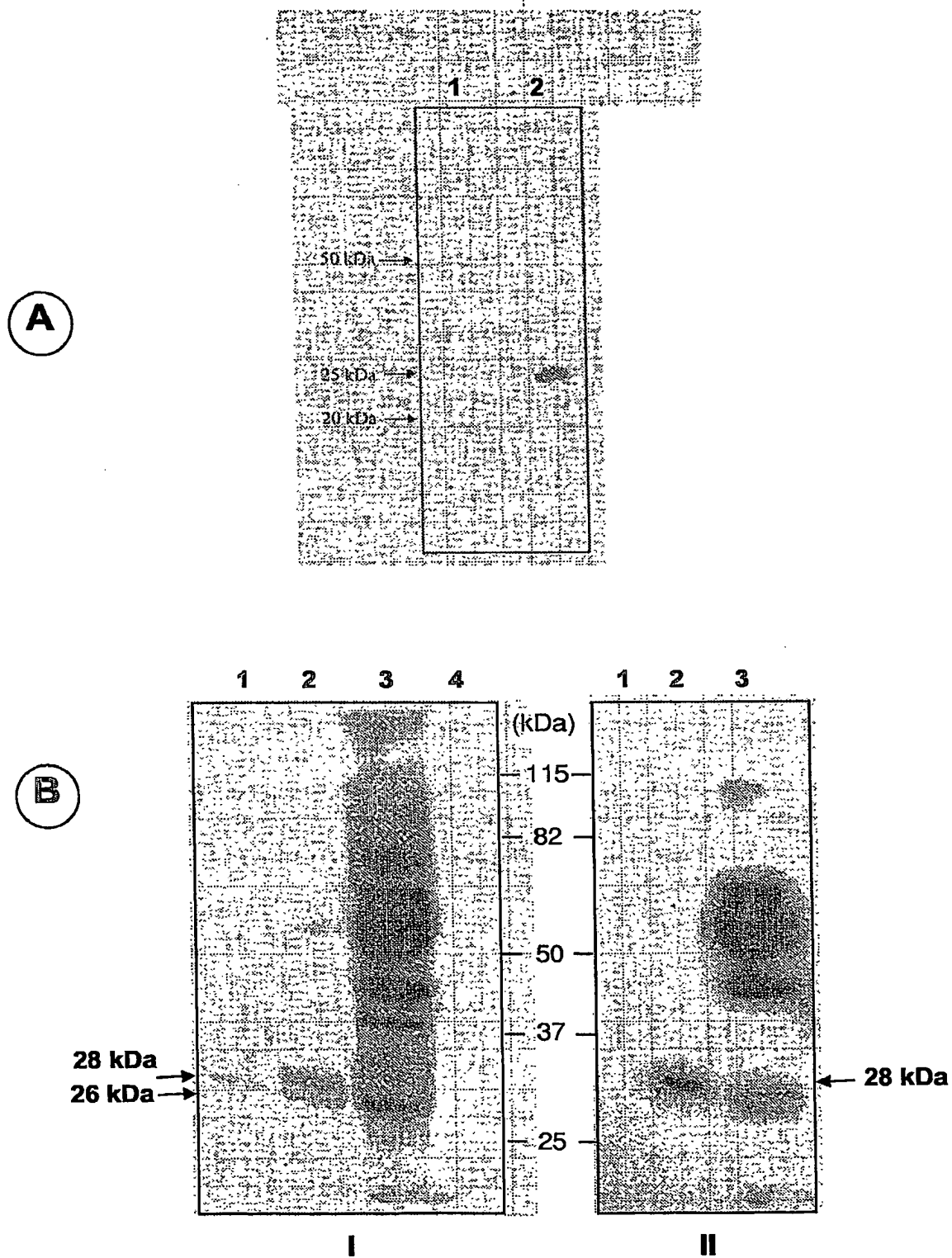
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Figure 13

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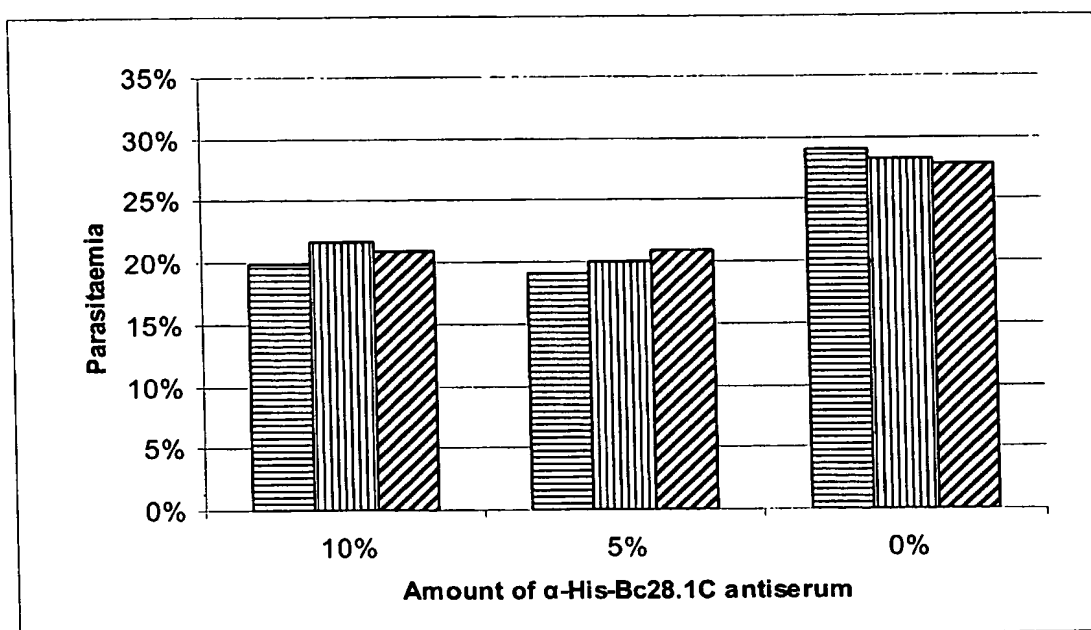
Figure 13 (continued)

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Figure 14

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Figure 15



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